

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
M122-1322

SERIAL NO.
09/512,449

LIST OF ART CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANT
Vishnu K. Agarwal

FILING DATE
February 23, 2000

GROUP 1512

U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MDP	AA 5,910,218	06/08/99	Park et al.	118	719	
MDP	AB 5,910,880	06/08/99	DeBoer et al.	361	311	
MDP	AC 5,916,634	06/29/99	Fleming et al.	427	255.2	
MDP	AD 5,919,531	07/06/99	Artles et al.	427	576	
MDP	AE 5,930,584	07/27/99	Suo et al.	438	003	
MDP	AF 5,933,316	08/03/99	Ramakrishnan et al.	361	311	
MDP	AG 5,955,758	09/21/99	Sandhu et al.	257	306	
MDP	AH 5,970,369	10/19/99	Hara et al.	438	488	
MDP	AI 5,985,714	11/16/99	Sandhu et al.	438	253	
MDP	AJ 5,990,507	11/23/99	Mochizuki et al.	257	295	
MDP	AK 6,010,744	01/04/00	Buskirk et al.	427	081	

FOREIGN PATENT DOCUMENTS

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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER: *Charles S. Liguori-Liguori*

DATE CONSIDERED: *10/13/2000*

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Form PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
M122-1322

SERIAL NO.
09/512,449

LIST OF ART CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANT
Vishno K. Agarwal

FILING DATE
February 23, 2000

GROUP 300

U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MDP	AA 6,015,989	01/18/00	Horikawa et al.	257	309	
MDP	AB 6,017,789	01/25/00	Sandhu et al.	438	240	
MDP	AC 6,027,969	02/22/00	Huang et al.	438	254	
MDP	AD 6,028,360	02/22/00	Nakamura et al.	257	758	
MDP	AE 6,046,469	04/04/00	Yamazaki et al.	257	306	
MDP	AF 6,051,859	04/18/00	Hosotani et al.	257	306	
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EXAMINER Thomas J. Lippard-Lenny DATE CONSIDERED 10/13/2000

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Form PTO-1449

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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
M122-1322SERIAL NO.
09/512,449

LIST OF ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT
Vishnu K. AgarwalFILING DATE
February 23, 2000GROUP ~~2672~~

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MDP	AA	08/994,054		Parekh, et al.			12/19/97
MDP	AB	09/033,063		Al-Shareef, et al.			02/28/98
MDP	AC	09/033,064		Al-Shareef, et al.			02/28/98
MDP	AD	09/058,612		Agarwal, et al.			04/10/98
MDP	AE	09/059,057		Agarwal, et al.			04/10/98
MDP	AF	09/074,638		Agarwal, et al.			05/07/98
MDP	AG	09/083,257		Al-Shareef, et al.			05/21/98
MDP	AH	09/086,389		Saodhu, et al.			05/28/98
MDP	AI	09/098,035		DeBoer, et al.			06/15/98
MDP	AJ	09/122,473		Schuegraf			07/23/98
MDP	AK	09/137,780		Al-Shareef, et al.			08/20/98

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EXAMINER

Mance S. Sigurdson

DATE CONSIDERED

10/13/2000

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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. M122-1322		SERIAL NO. 09/512,449			
<div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block; text-align: center;"> OFFICE OF THE COMPTROLLER OF PATENTS U.S. DEPARTMENT OF COMMERCE JUL 17 2000 </div>				LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Vishnu K. Agarwal	
				FILING DATE February 23, 2000		GROUP 3000			
U.S. PATENT DOCUMENTS									
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate			
MDP	AA	09/185,412	Graettinger, et al.			11/03/98			
MDP	AB	09/229,518	DeBoer, et al.			01/13/99			
MDP	AC	09/512,149	Agarwal			02/23/00			
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EXAMINER <i>James S. Lipman - Group</i>				DATE CONSIDERED <i>10/13/2000</i>					
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>									

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PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
M122-1322

SERIAL NO.
09/512,149

LIST OF ART CITED BY APPLICANT
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APPLICANT
Vahnu K. Agarwal

FILING DATE
February 23, 2000

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U.S. PATENT DOCUMENTS

Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MDP	AA 09/059,057		Agarwal			04/10/98
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Marcel L. Lippard-Lorey

DATE CONSIDERED

10/13/2000

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Form PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
M122-1322SERIAL NO.
09/512,149LIST OF ART CITED BY APPLICANT
(Use several sheets if necessary)APPLICANT
Vishnu K. AgarwalFILING DATE
February 23, 2000GROUP
2814

U.S. PATENT DOCUMENTS

Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MDP	AA	5,411,912	5-2-1995	Sakamoto			
MDP	AB	5,508,221	4-16-1996	Kamiyama			
MDP	AC	5,876,788	3-2-1999	Bronner et al.			
MDP	AD	6,010,931	1-4-2000	Sun et al.			
MDP	AE	6,037,205	3-14-2000	Huh et al.			
MDP	AF	6,048,764	4-11-2000	Suzuki et al.			
MDP	AG	6,150,208	11-21-2000	Deboer et al.			
MDP	AH	6,150,706	11-21-2000	Thakur et al.			
MDP	AI	6,168,985	1-2-2001	Asano et al.			
MDP	AB	6,180,481	1-30-2001	Deboer et al.			
MDP	AC	6,197,653	3-6-2001	Khamankar et al.			
MDP	AD	5,372,859	12-13-1994	Thakoor			
MDP	AE	JP 40716182A	12-2-93	Kamiyama, Satoshi (JAPAN)			
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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
M122-1322SERIAL NO.
09/512,149LIST OF ART CITED BY APPLICANT
(Use several sheets if necessary)APPLICANT
Vishnu K. Agarwal et al.FILING DATE
February 23, 2000GROUP
2814

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MDP	AA	5,913,125	06/99	Brouillette et al.	438	386	
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09/512,149LIST OF ART CITED BY APPLICANT
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Vishnu K. Agarwal et al.FILING DATE
February 23, 2000GROUP
2814

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MNP	AA	5,452,178	09/95	Emesh et al.			
MNP	AB	6,054,730	04/00	Noguchi, Mitsuhiro			
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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
M122-1643SERIAL NO.
09/512,149LIST OF ART CITED BY APPLICANT
(Use several sheets if necessary)APPLICANT
Vishnu K. AgarwalFILING DATE
February 23, 2000GROUP
2814

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AA	6,071,771 ✓	06/06/00	Schuegraf (09/122,473)			
AB	6,146,959 ✓	11/14/00	DeBoer et al. (09/098,035)			
AC	6,171,925 B1 ✓	01/09/01	Graettinger et al. (09/185,412)			
AD	6,282,080 B1 ✓	08/28/01	DeBoer et al. (09/229,518)			
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FOREIGN PATENT DOCUMENTS

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3/4/03

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
M122-1322SERIAL NO.
09/512,149LIST OF ART CITED BY APPLICANT
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Vishnu K. AgarwalFILING DATE
February 23, 2000GROUP
2814

U.S. PATENT DOCUMENTS

Examiner's Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
10P	AA 5,843,830 ✓	12/01/98	Graettinger et al. (08/670,644)			
	AB 5,786,248 ✓	07/28/98	Schuegraf (08/542,430)			
	AC 5,910,880 ✓	06/08/99	DeBoer et al. (08/916,771)			
	AD 6,191,443 B1 ✓	02/20/01	Al-Shareef et al. (09/033,063)			
	AE 6,162,744 ✓	12/19/00	Al-Shareef et al. (09/033,064)			
	AF 6,156,638 ✓	12/05/00	Agarwal et al. (09/058,612)			
	AG 6,255,186 B1 ✓	07/03/01	Al-Shareef et al. (09/137,780)			
	AH 6,165,834 ✓	12/26/00	Agarwal et al. (09/074,638)			
	AI 5,985,714 ✓	11/16/99	Sandhu et al. (08/858,027)			
	AJ 5,955,758 ✓	09/21/99	Sandhu et al. 08/738,789)			
✓	AK 6,017,789 ✓	01/25/00	Sandhu et al. (08/881,561)			
10P	AL 6,198,124 B1 ✓	03/06/01	Sandhu et al. (09/086,389)			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
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EXAMINER

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3/4/03

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PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
M122-1322

SERIAL NO.
09/512,149

APPLICANT
Vishnu K. Agarwal et al.

FILING DATE
February 23, 2000

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2814

LIST OF ART CITED BY APPLICANT
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA	5,780,115	07/14/98	Park et al.				
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EXAMINER: *[Signature]* DATE CONSIDERED: 9/23/2003

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
M122-1322

SERIAL NO.
09/512,149

INVENTOR OF ART CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANT
Vishno K. Agarwal et al.

FILING DATE
February 23, 2000

GROUP
2814

U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MDP	AA 5,753,547	05/19/98	Ying			
MDP	AB 6,204,203 B1	03/20/01	Narwanke et al.			
MDP	AC 5,973,911	10/26/99	Nishioka			
MDP	AD 6,727,143	04/04	Hoi et al.			
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EXAMINER *Marion B. Sigurdson* DATE CONSIDERED *11/10/2004*

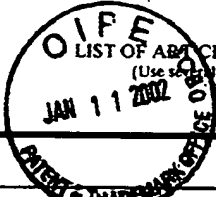
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE
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ATTY. DOCKET NO.
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SERIAL NO.
09/797,899



LIST OF ARTS CITED BY APPLICANT
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APPLICANT
Vishnu K. Agarwal et al.

FILING DATE
March 1, 2001

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2814

U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
MSP	AA 5,783,253	3-97	Roh			
MSP	AB 6,143,597	7-96	Matruda et al.			
MSP	AC 5,661,319	7-96	Fujii et al.			
MSP	AD 6,275,370	1-93	Gonde et al.			
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MSP	AM 405211288A	8-20-93	Japan				
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EXAMINER

Manuel D. Lopez-Lopez

DATE CONSIDERED

4/26/2002

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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. MI22-1322		SERIAL NO. FILED CONCURRENTLY	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT VISHNU K. AGARWAL		GROUP	
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)		
MDP	AR	IBM Technical Disclosure Bulletin, "Process for Selective Etching of Tantalum Oxide", IBM Corp., Vol. 27, No. 12 (May, 1985)
	AS	CHANG, Peng-Heng, et al., "Structures of Tantalum Pentoxide Thin Films Formed by Reactive Sputtering of Ta Metal", Thin Film Solids, Vol. 268, No. 1-2, pp. 56-63 (March 15, 1995)
MDP	AT	

EXAMINER <i>Marcelo E. Piquero-Lopez</i>	DATE CONSIDERED <i>10/13/2000</i>
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